FIG. 1A

KCNQ5 cDNA coding sequence

```
atgaaggatg tggagtcggg ccggggcagg gtgctgctga   40
actcggcagc cgccaggggc gacggcctgc tactgctggg   80
cacccgcgcg gccacgcttg gtggcggcgg cggtggcctg  120
agggagagcc gccggggcaa gcaggggggcc cggatgagcc  160
tgctggggaa gccgctctct tacacgagta gccagagctg  200
ccggcgcaac gtcaagtacc ggcgggtgca gaactacctg  240
tacaacgtgc tggagagacc ccgcggctgg gcgttcatct  280
accacgcttt cgtttttctc cttgtctttg gttgcttgat  320
tttgtcagtg ttttctacca tccctgagca cacaaaattg  360
gcctcaagtt gcctcttgat cctggagttc gtgatgattg  400
tcgtctttgg tttggagttc atcattcgaa tctggtctgc  440
gggttgctgt tgtcgatata gaggatggca aggaagactg  480
aggtttgctc gaaagccctt ctgtgttata gataccattg  520
ttcttatcgc ttcaatagca gttgtttctg caaaaactca  560
gggtaatatt tttgccacgt ctgcactcag aagtctccgt  600
ttcctacaga tcctccgcat ggtgcgcatg gaccgaaggg  640
gaggcacttg gaaattactg ggttcagtgg tttatgctca  680
cagcaaggaa ttaatcacag cttggtacat aggatttttg  720
gttcttattt tttcgtcttt ccttgtctat ctggtggaaa  760
```

FIG. 1B

aggatgccaa taaagagttt tctacatatg cagatgctct 800
ctggtggggc acaattacat tgacaactat tggctatgga 840
gacaaaactc ccctaacttg gctgggaaga ttgctttctg 880
caggctttgc actccttggc atttctttct ttgcacttcc 920
tgccggcatt cttggctcag gttttgcatt aaaagtacaa 960
gaacaacacc gccagaaaca ctttgagaaa agaaggaacc 1000
cagctgccaa cctcattcag tgtgtttggc gtagttacgc 1040
agctgatgag aaatctgttt ccattgcaac ctggaagcca 1080
cacttgaagg ccttgcacac ctgcagccct accaagaaag 1120
aacaagggga agcatcaagc agtcagaagc taagttttaa 1160
ggagcgagtg cgcatggcta gccccagggg ccagagtatt 1200
aagagccgac aagcctcagt aggtgacagg aggtccccaa 1240
gcaccgacat cacagccgag ggcagtccca ccaaagtgca 1280
gaagagctgg agcttcaacg accgaacccg cttccggccc 1320
tcgctgcgcc tcaaaagttc tcagccaaaa ccagtgatag 1360
atgctgacac agcccttggc actgatgatg tatatgatga 1400
aaaaggatgc cagtgtgatg tatcagtgga agacctcacc 1440
ccaccactta aaactgtcat tcgagctatc agaattatga 1480
aatttcatgt tgcaaaacgg aagtttaagg aaacgttacg 1520
tccatatgat gtaaaagatg tcattgaaca atattctgct 1560

FIG. 1C

ggtcatctgg acatgttgtg tagaattaaa agccttcaaa 1600
cacgtgttga tcaaattctt ggaaaagggc aaatcacatc 1640
agataagaag agccgagaga aaataacagc agaacatgag 1680
accacagacg atctcagtat gctcggtcgg gtggtcaagg 1720
ttgaaaaaca ggtacagtcc atagagtcca agctggactg 1760
cctactagac atctatcaac aggtccttcg gaaaggctct 1800
gcctcagccc tcgctttggc ttcattccag atcccacctt 1840
ttgaatgtga acagacatct gactatcaaa gccctgtgga 1880
tagcaaagat ctttcgggtt ccgcacaaaa cagtggctgc 1920
ttatccagat caactagtgc caacatctcg agaggcctgc 1960
agttcattct gacgccaaat gagttcagtg cccagacttt 2000
ctacgcgctt agccctacta tgcacagtca agcaacacag 2040
gtgccaatta gtcaaagcga tggctcagca gtggcagcca 2080
ccaacaccat tgcaaaccaa ataaatacgg cacccaagcc 2120
agcagcccca acaactttac agatcccacc tcctctccca 2160
gccatcaagc atctgcccag gccagaaact ctgcacccta 2200
accctgcagg cttacaggaa agcatttctg acgtcaccac 2240
ctgccttgtt gcctccaagg aaaatgttca ggttgcacag 2280
tcaaatctca ccaaggaccg ttctatgagg aaaagctttg 2320
acatgggagg agaaactctg ttgtctgtct gtcccatggt 2360
gccgaaggac ttgggcaaat ctttgtctgt gcaaaacctg 2400
atcaggtcga ccgaggaact gaatatacaa ctttcaggga 2440

FIG. 1D

gtgagtcaag tggctccaga ggcagccaag atttttaccc 2480

caaatggagg gaatccaaat tgtttataac tgatgaagag 2520

gtgggtcccg aagagacaga gacagacact tttgatgccg 2560

caccgcagcc tgccagggaa gctgcctttg catcagactc 2600

tctaaggact ggaaggtcac gatcatctca gagcatttgt 2640

aaggcaggag aaagtacaga tgccctcagc ttgcctcatg 2680

tcaaactgaa ataa 2694

FIG. 2A

KCNQ5 Protein Sequence

MKDVESGRGR	VLLNSAAARG	DGLLLLGTRA	ATLGGGGGGL	40
RESRRGKQGA	RMSLLGKPLS	YTSSQSCRRN	VKYRRVQNYL	80
YNVLERPRGW	AFIYHAFVFL	LVFGCLILSV	FSTIPEHTKL	120
ASSCLLILEF	VMIVVFGLEF	IIRIWSAGCC	CRYRGWQGRL	160
RFARKPFCVI	DTIVLIASIA	VVSAKTQGNI	FATSALRSLR	200
FLQILRMVRM	DRRGGTWKLL	GSVVYAHSKE	LITAWYIGFL	240
VLIFSSFLVY	LVEKDANKEF	STYADALWWG	TITLTTIGYG	280
DKTPLTWLGR	LLSAGFALLG	ISFFALPAGI	LGSGFALKVQ	320
EQHRQKHFEK	RRNPAANLIQ	CVWRSYAADE	KSVSIATWKP	360
HLKALHTCSP	TKKEQGEASS	SQKLSFKERV	RMASPRGQSI	400
KSRQASVGDR	RSPSTDITAE	GSPTKVQKSW	SFNDRTRFRP	440
SLRLKSSQPK	PVIDADTALG	TDDVYDEKGC	QCDVSVEDLT	480
PPLKTVIRAI	RIMKFHVAKR	KFKETLRPYD	VKDVIEQYSA	520
GHLDMLCRIK	SLQTRVDQIL	GKGQITSDKK	SREKITAEHE	560
TTDDLSMLGR	VVKVEKQVQS	IESKLDCLLD	IYQQVLRKGS	600
ASALALASFQ	IPPFECEQTS	DYQSPVDSKD	LSGSAQNSGC	640
LSRSTSANIS	RGLQFILTPN	EFSAQTFYAL	SPTMHSQATQ	680
VPISQSDGSA	VAATNTIANQ	INTAPKPAAP	TTLQIPPPLP	720
AIKHLPRPET	LHPNPAGLQE	SISDVTTCLV	ASKENVQVAQ	760
SNLTKDRSMR	KSFDMGGETL	LSVCPMVPKD	LGKSLSVQNL	800
IRSTEELNIQ	LSGSESSGSR	GSQDFYPKWR	ESKLFITDEE	840

FIG. 2B

VGPEETETDT FDAAPQPARE AAFASDSLRT GRSRSSQSIC 880

KAGESTDALS LPHVKLK 897

FIG. 3

Alternative Splice Exon 1

TGG	GGA	CAG	TGG	ACA	TTG	CGT
Trp	Gly	Gln	Trp	Thr	Leu	Arg

FIG. 4A

3' UTR

gttcttcatt ttctttccag gcatagcagt tctttagcca 40
tacatatcat tgcatgaact atttcgaaag cccttctaaa 80
aagttgaaat tgcaagaatc gggaagaaca tgaaaggcag 120
tttataagcc cgttaccttt taattgcatg aaaatgcatg 160
tttagggatg gctaaaattc caaggtgcat cgacattaac 200
ccactcattt agtaatgtac cttgagttaa aaagcctgag 240
aaaccaaaca cagctaatgc tatggggtgt atgaatatgt 280
caagtttagg tcatttagaa gatttgacac tgtattttga 320
aattatgagt aaacaccttc aaatttcagg catttctgct 360
ttgtgactaa atacaaacta cattttcaag attaggccat 400
aatgtatatt taaacacaat ggctatcaac agctgctaat 440
aaggtatcaa ctaaagcaga attggggaat aatagaaatg 480
gctgcttatt tcaagatata tttgccaacc cattcctatt 520
cagtcatttt attattaatg taatttgaat gtcaatttgt 560
gtgcttttgg tgatttagcg ctgtggcaag caattttgca 600
catcattttc atgttgttct ttatgacaag aatgttcttc 640
aattagaaaa tgtgcaaata atgaaattca gggccagtga 680
ggcaaataga ctatctgaca tatttgactt tatgaaaaca 720
tattgcctga tggcagaatc aactttataa gtggtcaact 760
tctacacaag cgtatgaaat actggtcagt agaacagcca 800

FIG. 4B

ttgtgattgg actggtttct ctgcaatggc gccaacccca 840

ggcttgccaa tactgcctat gtaaagggca agtgtgagaa 880

gctattctca tttcgctgac atacaggtag gactatgggg 920

gatgggacat ttgagtggga ctgagatagg aaaggcttga 960

aaagaaccca gaaacaccac caggaagttg gcaaagtaaa 1000

agaaaatgac ttcccctca aagggcaatg agagggagag 1040

aaacaaacca aaatagaaga actagacttt ttagaaaatg 1080

agtattgcta 1090

FIG. 5A

Multiple Sequence Alignment of the KCNQ Channel Family Members

```
hskcnq4 ~~~~~~~~~~~~~~~~~~~~~MAEAPPRRLGLGPPPGDAPRAE.LVALTAVQSEQGEAG.
hskcnq5 ~~~~~~~~~~~~~~~~~~~~~MKDVESGR.GRVLLNSAAARGDGLLLLGTRAATLGGGG.
hskcnq2 ~~~~~~~~~~~~~~~~~~~~~~~MVQKSRNG.GVYPG..PSGEKKLKVGFVGLDPG.AP.
hskcnq3 MGLKARRAAGAAGGGGDGGGGGGGAANPAGGDAAAAGDEERKVGLAPGDVEQVTLALGA.
hskcnq1 ~~~~~~~~~~~~~~~MAAASSPPRAERKRWGWGRLPGARRGSAGLAKKCPFSLELAEGGP

hskcnq4 GGGSPRRLGLLGSPLP.PGAPLPGPGSG.SGSACGQRSSAA.HKR...Y..RR.......
hskcnq5 GGLRESRRGKQGARMSLLGKPL...SYT.SSQSC.RR.....NVK...Y..RR.......
hskcnq2 DSTRDGALLIAGSEAPKRGSILSKPRAG.GAGA..GKPPKR.NAF...Y..RK.......
hskcnq3 GADKDGTLLLEGGGRDE.GQRRTPQGIGLLAKTPLSRPVKRNNAK...Y..RR.......
hskcnq1 AGGALYAPIAPGAPGPAPPASPAAPAAPPVASDLGPRPPVSLDPRVSIYSTRRPVLARTH

hskcnq4 LQNWVYNVLERPRGW.AFVYHVFIFLLVFSCLVLSVLSTIQEHQELANECLLILEFVMIV
hskcnq5 VQNYLYNVLERPRGW.AFIYHAFVFLLVFGCLILSVFSTIPEHTKLASSCLLILEFVMIV
hskcnq2 LQNFLYNVLERPRGW.AFIYHAYVFLLVFSCLVLSVFSTIKEYEKSSEGALYILEIVTIV
hskcnq3 IQTLIYDALERPRGW.ALLYHALVFLIVLGCLILAVLTTFKEYETVSGDWLLLLETFAIF
hskcnq1 VQGRVYNFLERPTGWKCFVYHFAVFLIVLVCLIFSVLSTIEQYAALATGTLFWMEIVLVV

hskcnq4 VFGLEYIVRVWSAGCCCRYRGWQGRFRFARKPFCVIDFIVFVASVAVIAAGTQGNIFATS
hskcnq5 VFGLEFIIRIWSAGCCCRYRGWQGRLRFARKPFCVIDTIVLIASIAVVSAKTQGNIFATS
hskcnq2 VFGVEYFVRIWAAGCCCRYRGWRGRLKFARKPFCVIDIMVLIASIAVLAAGSQGNVFATS
hskcnq3 IFGAEFALRIWAAGCCCRYKGWRGRLKFARKPLCMLDIFVLIASVPVVAVGNQGNVLATS
hskcnq1 FFGTEYVVRLWSAGCRSKYVGLWGRLRFARKPISIIDLIVVVASMVVLCVGSKGQVFATS

hskcnq4 ALRSMRFLQILRMVRMDRRGGTWKLLGSVVYAHSKELITAWYIGFLVLIFASFLVYLAEK
hskcnq5 ALRSLRFLQILRMVRMDRRGGTWKLLGSVVYAHSKELITAWYIGFLVLIFSSFLVYLVEK
hskcnq2 ALRSLRFLQILRMIRMDRRGGTWKLLGSVVYAHSKELVTAWYIGFLCLILASFLVYLAEK
hskcnq3 .LRSLRFLQILRMLRMDRRGGTWKLLGSAICAHSKELITAWYIGFLTLILSSFLVYLVEK
hskcnq1 AIRGIRFLQILRMLHVDRQGGTWRLLGSVVFIHRQELITTLYIGFLGLIFSSYFVYLAEK

hskcnq4 DA..........NSDFSSYADSLWWGTITLTTIGYGDKTPHTWLGRVLAAGFALLGISFF
hskcnq5 DA..........NKEFSTYADALWWGTITLTTIGYGDKTPLTWLGRLLSAGFALLGISFF
hskcnq2 GE..........NDHFDTYADALWWGLITLTTIGYGDKYPQTWNGRLLAATFTLIGVSFF
hskcnq3 DVPEVDAQGEEMKEEFETYADALWWGLITLATIGYGDKTPKTWEGRLIAATFSLIGVSFF
hskcnq1 DAVNESGRV.....EFGSYADALWWGVVTVTTIGYGDKVPQTWVGKTIASCFSVFAISFF

hskcnq4 ALPAGILGSGFALKVQEQHRQKHFEKRRMPAANLIQAAWRLYSTDMSRAYLTATWYYYDS
hskcnq5 ALPAGILGSGFALKVQEQHRQKHFEKRRNPAANLIQCVWRSYAAD.EKSVSIATW.....
hskcnq2 ALPAGILGSGFALKVQEQHRQKHFEKRRNPAAGLIQSAWRFYATNLSRTDLHSTWQYYER
hskcnq3 ALPAGILGSGLALKVQEQHRQKHFEKRRKPAAELIQAAWRYYATNPNRIDLVATWRFYES
hskcnq1 ALPAGILGSGFALKVQQKQRQKHFNRQIPAAASLIQTAWRCYAAENPDS...STWKIY..

hskcnq4 ..ILPSFRELALLFEHVQRARNGGLRPLEVRRAPVPDGAPSRYPPVATCHRPGSTSFCPG
hskcnq5 ...KPHLKAL.....HT...................CSPTK.......KEQGEAS....
hskcnq2 TVTVPMYRLIPPLNQLELLRNLKSKSGLAFRKDPPPEPSP...................
hskcnq3 VVSFPPFFR.................................KEQLEAA....
hskcnq1 ......IRKAP..RSHTLLS...............PSPKPKKSVVVKKKKFKLDKDNGVT
```

FIG. 5B

```
hskcnq4  ESSRMGIKDRIRMGSSQRRTGPS.KQQLAPPTMPTSPSSEQVGEATSPTKVQKSWSFNDR
hskcnq5  SSQKLSFKERVRMASPRGQSIKS.RQ..ASVGDRRSPSTDITAEG.SPTKVQKSWSFNDR
hskcnq2  .SQKVSLKDRV.FSSPRGVAAKG.KGSPQAQTVRRSPSADQSLE.DSPSKVPKSWSFGDR
hskcnq3  SSQKLGLLDRVRLSNPRGSNTKG.KLF........TPLNVDAIE.ESPSKEPKPVGLNNK
hskcnq1  PGEKMLTVPHITCDPPEERRLDHFSVDGYDSSVRKSPT...LLEVSMP............

hskcnq4  TRFRASLRL.....KPRTSAEDA.PSEEVAEEKSYQCELTVDDIMPAVKTVIRSIRILKF
hskcnq5  TRFRPSLRLKSSQPKPVIDADTALGTDDVYDEKGCQCDVSVEDLTPPLKTVIRAIRIMKF
hskcnq2  SRARQAFRIKGAASR.QNSEEASLPGEDIVDDKSCPCEFVTEDLTPGLKVSIRAVCVMRF
hskcnq3  ERFRTAFRMKAYAFWQ..SSEDAGTGDPMAEDRGYGNDFPIEDMIPTLKAAIRAVRILQF
hskcnq1  .HF...MRTNSFAEDLDLEGETLLT..PITH.........ISQLREHHRATIKVIRRMQY

hskcnq4  LVAKRKFKETLRPYDVKDVIEQYSAGHLDMLGRIKSLQTRVDQIVGRG...PGDR.KARE
hskcnq5  HVAKRKFKETLRPYDVKDVIEQYSAGHLDMLCRIKSLQTRVDQILGKGQI.TSDK.KSRE
hskcnq2  LVSKRKFKESLRPYDVMDVIEQYSAGHLDMLSRIKSLQSRVDQIVGRGPA.ITD..KDR.
hskcnq3  RLYKKKFKETLRPYDVKDVIEQYSAGHLDMLSRIKYLQTRIDMIFTPGPP.STPKHKKSQ
hskcnq1  FVAKKKFQQARKPYDVRDVIEQYSQGHLNLMVRIKELQRRLDQSIGKPSLFISVSEKSKD

hskcnq4  KGDKG................PSDAEVVDEISMMGRVVKVE..KQVQSIEHKLDLLLGFY
hskcnq5  ...KI................TAEHETTDDLSMLGRVVKVE..KQVQSIESKLDCLLDIY
hskcnq2  ..TKG................PAEAELPEDPSMMGRLGKVE..KQVLSMEKKLDFLVNIY
hskcnq3  KGSAFTFPSQQSPRNEPYVARPSTSEI.EDQSMMGKFVKVE..RQVQDMGKKLDFLVDMH
hskcnq1  RGSNTIGARLNRVEDKVTQLDQRLALITD...MLHQLLSLHGGSTPGSGGPPREGGAHIT

hskcnq4  SRCLRSGT..SA.SLGAVQVPLFDPDITSDYHSPVDH..EDISVSAQTLS.ISRSVSTNM
hskcnq5  QQVLRKGSA.SALALASFQIPPFECEQTSDYQSPVDS..KDLSGSAQNSGCLSRSTSANI
hskcnq2  MQ..RMGIP.PTETEAYFGAK..EPEPAPPYHSPEDS..RE...HVDRHGCIVKIVRSSS
hskcnq3  MQHMER...........LQVQVTEYYPTKGTSSPAEAEKKEDNRYSDLKTIICNYSETGP
hskcnq1  QPCGSGGSVDPELFLPSNTLPTYE.QLTVPRRGPDEGS~~~~~~~~~~~~~~~~~~~~~~

hskcnq4  D~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
hskcnq5  SRGLQFI..LTPNEFSAQTFYALSPTMHSQATQVPISQSDGSAVAATNTIANQINTAPKP
hskcnq2  STGQKNF..SAPPAAPP....VQCPPSTSWQPQSHPRQGHGTSPVGDHGSLVRIPPPPAH
hskcnq3  PEPPYSFHQVTIDKVSPYGFFAHDPVNLPRGGPSS.GKVQATPPSSATTYVERPTVLPIL
hskcnq1  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

hskcnq4  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
hskcnq5  AAPTTLQIPPPLPAIKHLPRPETLHPNPAGLQESISDVTTCLVASKENVQVAQSNLTKDR
hskcnq2  ERSLSAYGGGNRASMEFLRQEDTPGCRPPEGTLRDSDTSISIPSVDHEELERSFSGFSIS
hskcnq3  TLLDSRVSCHSQADLQG.PYSDRISPRQRRSITRDSDTPLSLMSVNHEELERSPSGFSIS
hskcnq1  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

hskcnq4  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
hskcnq5  SMRKSFDMGGETLLSVCPMVPK....DLGKSLSVQNLIRSTEELNIQLSGSESSGSRGSQ
hskcnq2  QSKENLDALNSCYAAVAPCAKVRPYIAEGESDTDSDLCTPCGPPPRSATGEGPFGDVGWA
hskcnq3  QDRDDYVFGPN...GGSSWMREKRYLAEGETDTDTDPFTPSGSMPLSSTGDGISDSVWTP
hskcnq1  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

FIG. 5C

```
hskcnq4 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
hskcnq5 DFYPKWRESKLFITDEEVGPEETETDTFDAAPQPAREAAFASDSLRTGRSRSSQSICKAG
hskcnq2 GPRK~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
hskcnq3 SNKPI~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
hskcnq1 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

hskcnq4 ~~~~~~~~~~~~~~
hskcnq5 ESTDALSLPHVKLK
hskcnq2 ~~~~~~~~~~~~~~
hskcnq3 ~~~~~~~~~~~~~~
hskcnq1 ~~~~~~~~~~~~~~
```

FIG. 6A

Human RNA Master Blot

TABLE 1

	1	2	3	4	5	6	7	8
A	whole brain	amygdala	Caudate nucleus	cerebellu m	cerebral cortex	frontal lobe	hippocampus	medulla oblongata
B	occipital pole	putamen	substantia nigra	temporal lobe	thalamus	Subthalamic nucleus	spinal cord	
C	heart	aorta	Skeletal muscle	colon	bladder	uterus	prostate	stomach
D	testis	ovary	pancreas	pituitary gland	adrenal gland	thyroid gland	salivary gland	mammary gland
E	kidney	liver	small intestine	spleen	thymus	peripheral leukocyte	lymph node	bone marrow
F	Appendix	lung	trachea	placenta				
G	fetal brain	fetal heart	fetal kidney	fetal liver	fetal spleen	fetal thymus	fetal lung	
H	yeast total RNA	yeast tRNA	E. *coli* rRNA	E. *coli* DNA	Poly r(A)	human C_0t DNA	human DNA	human DNA

FIG. 6B

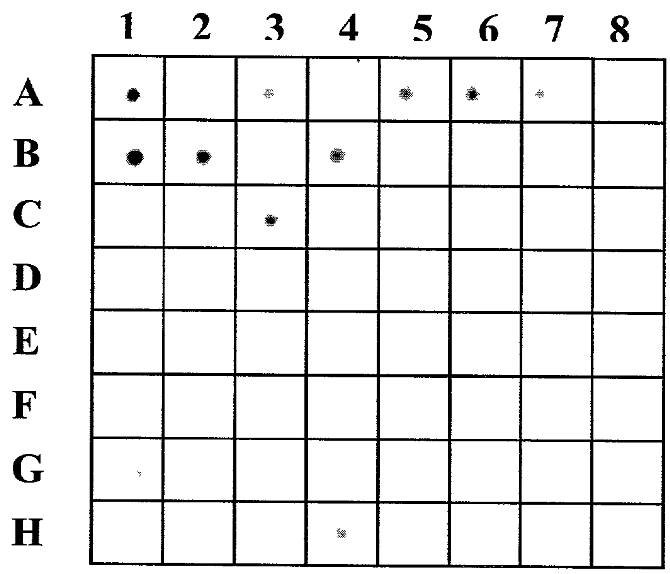


FIG. 7

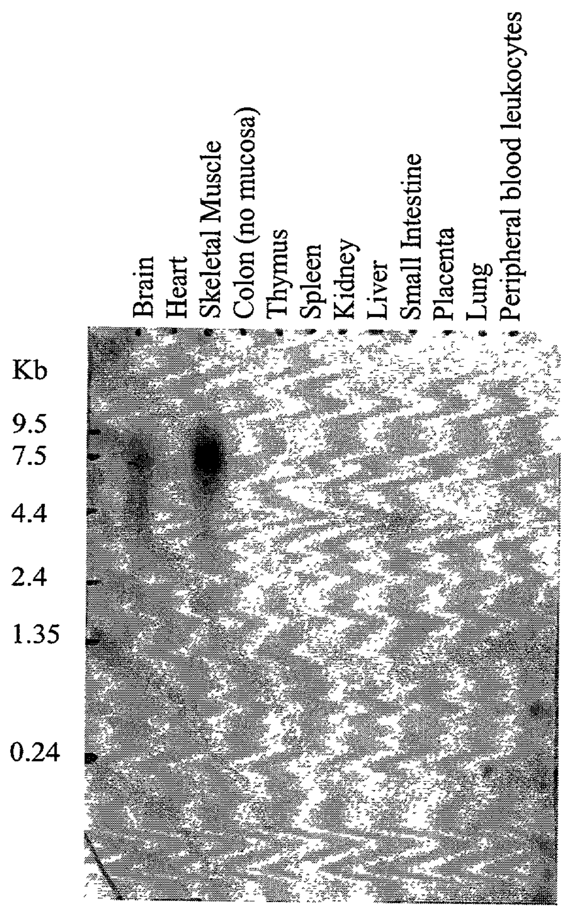
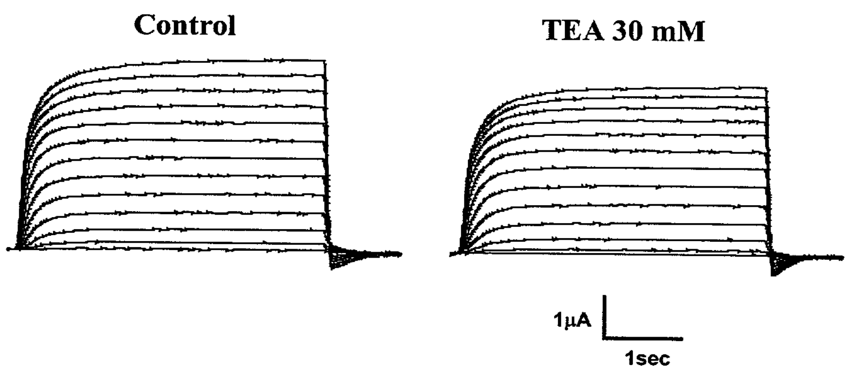

Brain
Heart
Skeletal Muscle
Colon (no mucosa)
Thymus
Spleen
Kidney
Liver
Small Intestine
Placenta
Lung
Peripheral blood leukocytes
Kb
9.5
7.5
4.4
2.4
1.35
0.24

FIG. 8

hKCNQ5



Antisense

Sense

FIG. 9A

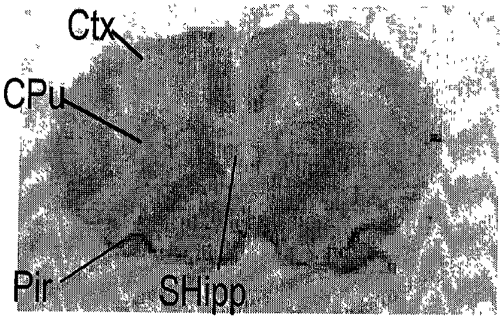


FIG. 9D

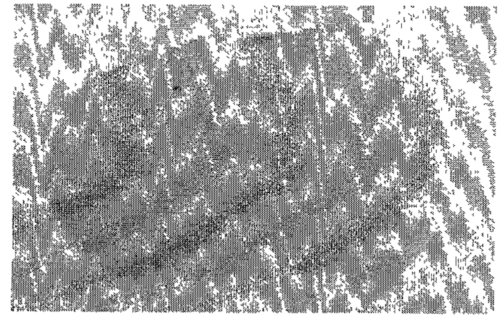


FIG. 9B

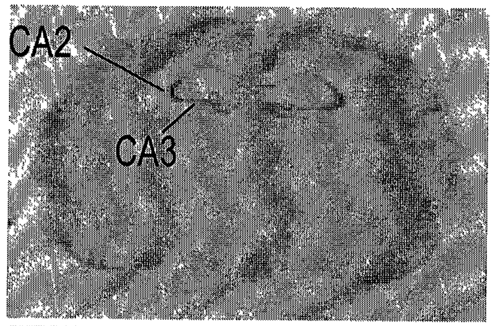


FIG. 9E

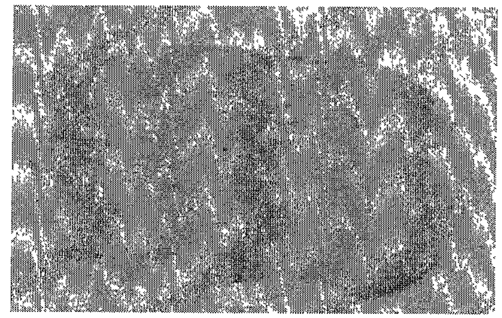


FIG. 9C

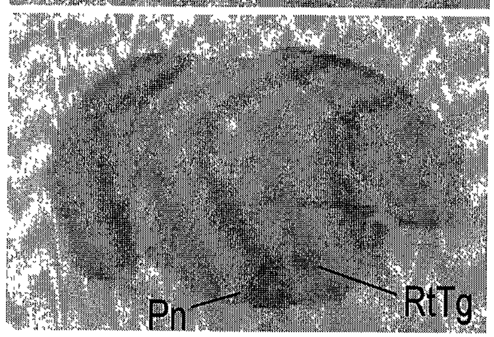


FIG. 9F

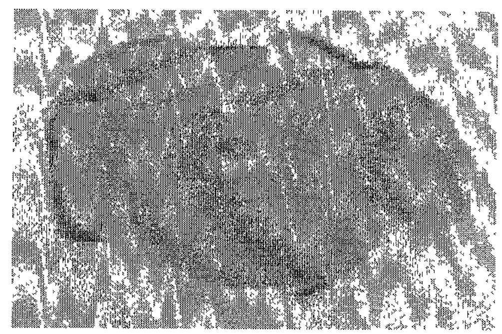


FIG. 10A

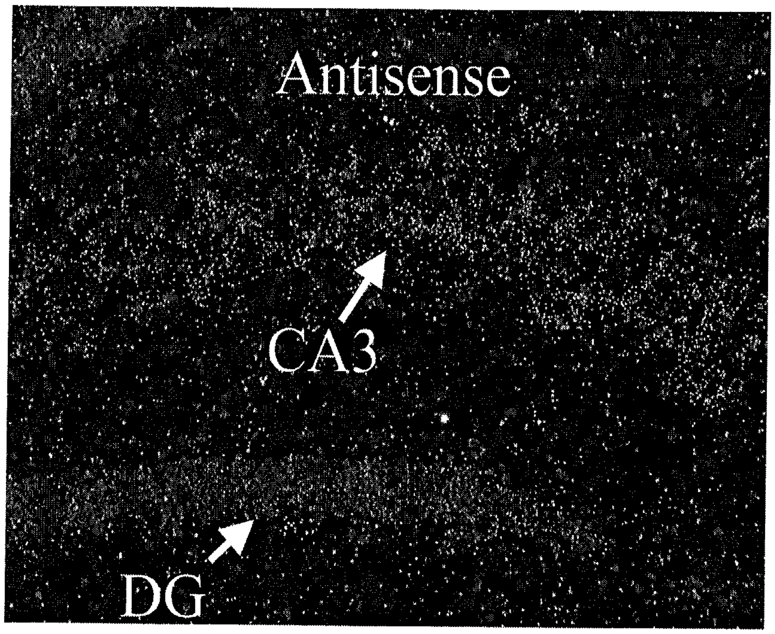


FIG. 10B

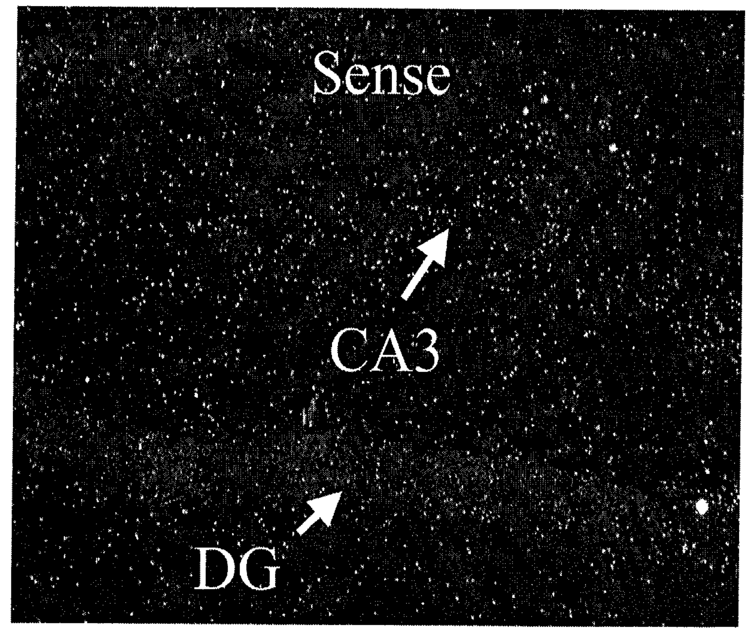


FIG. 11

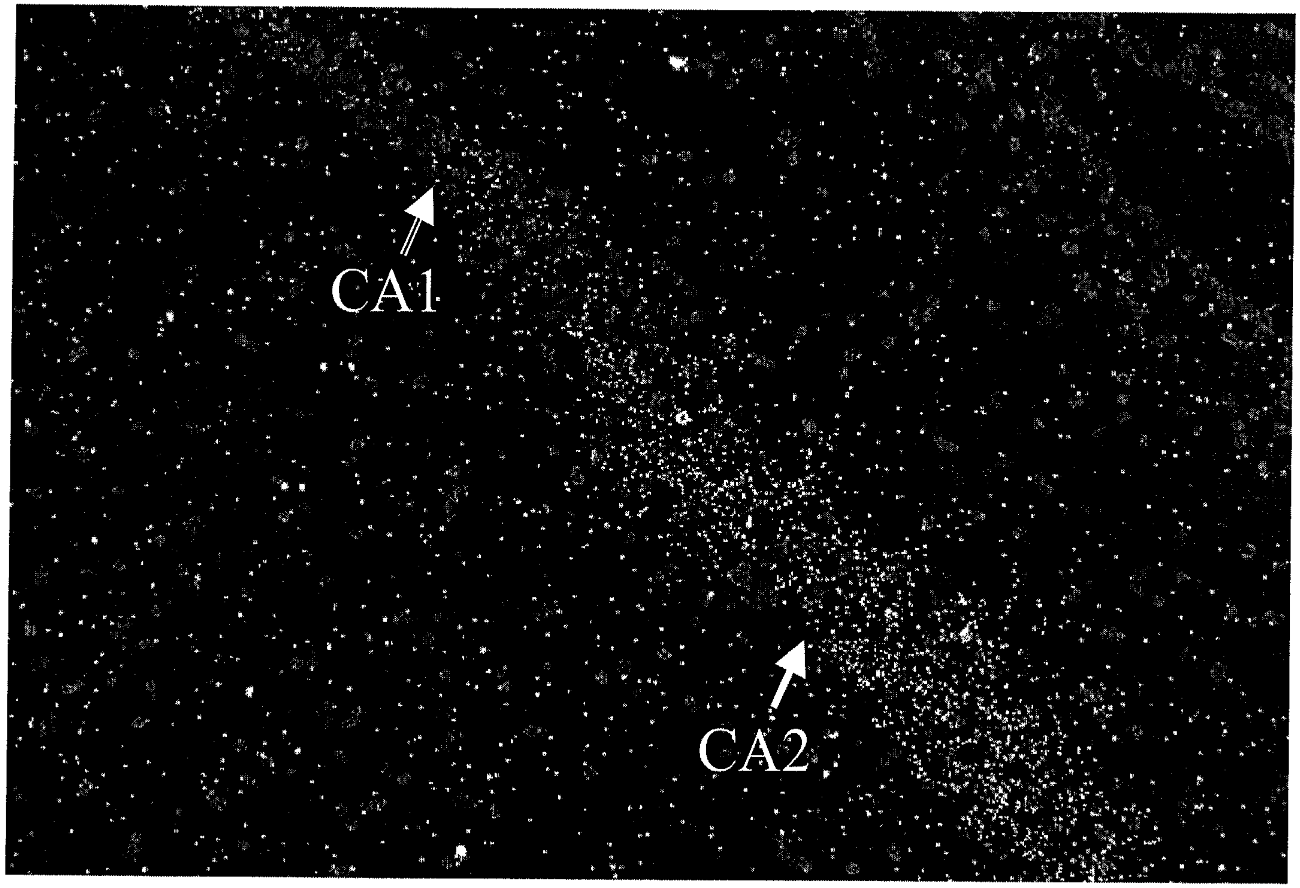


FIG. 12A

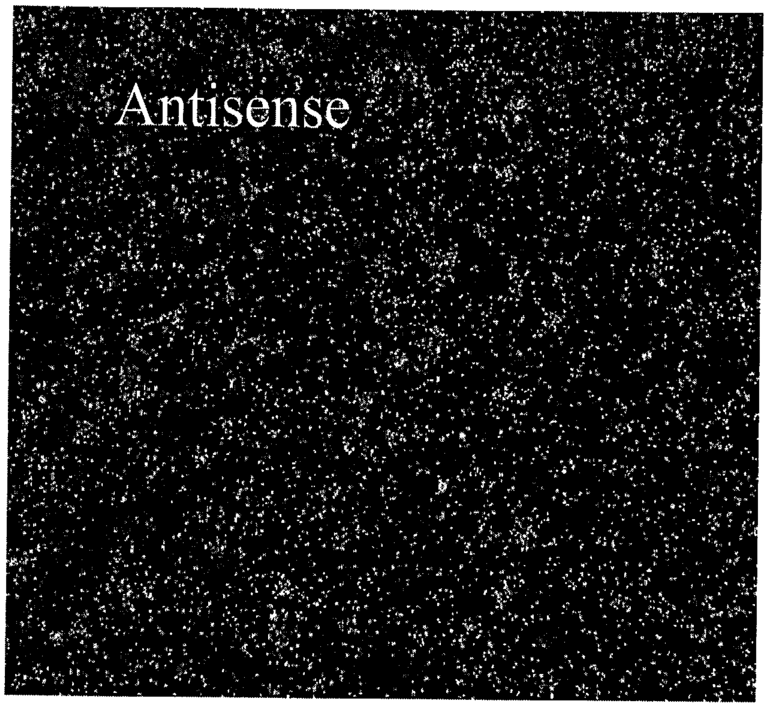


FIG. 12B

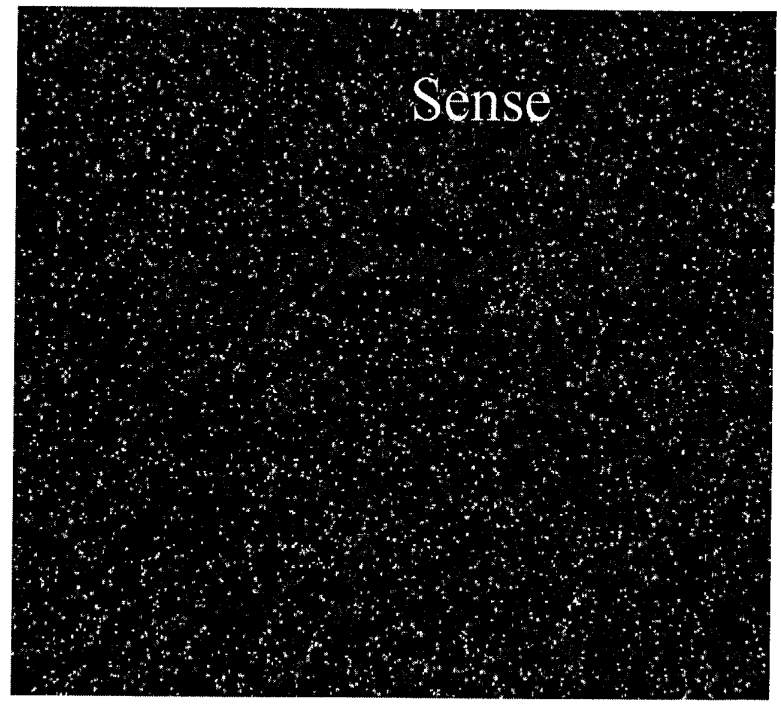


FIG. 13A

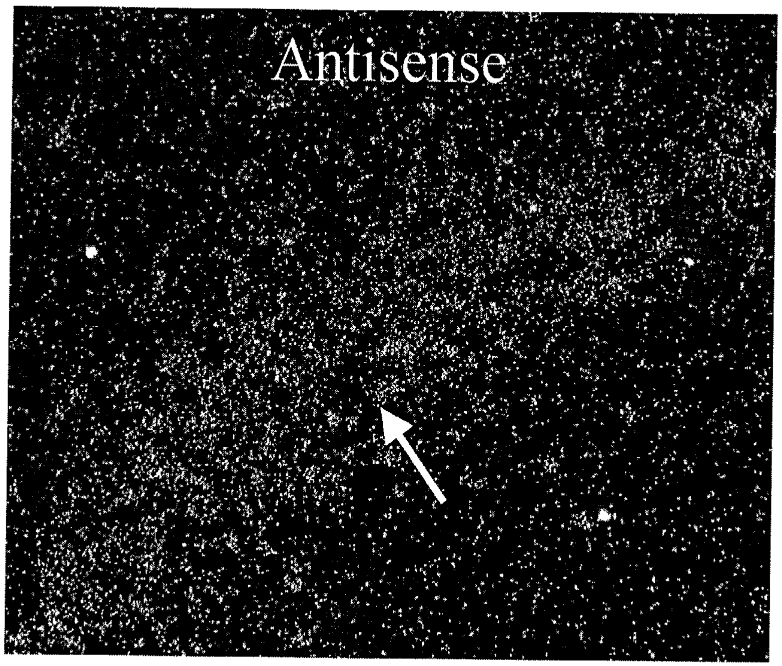


FIG. 13B

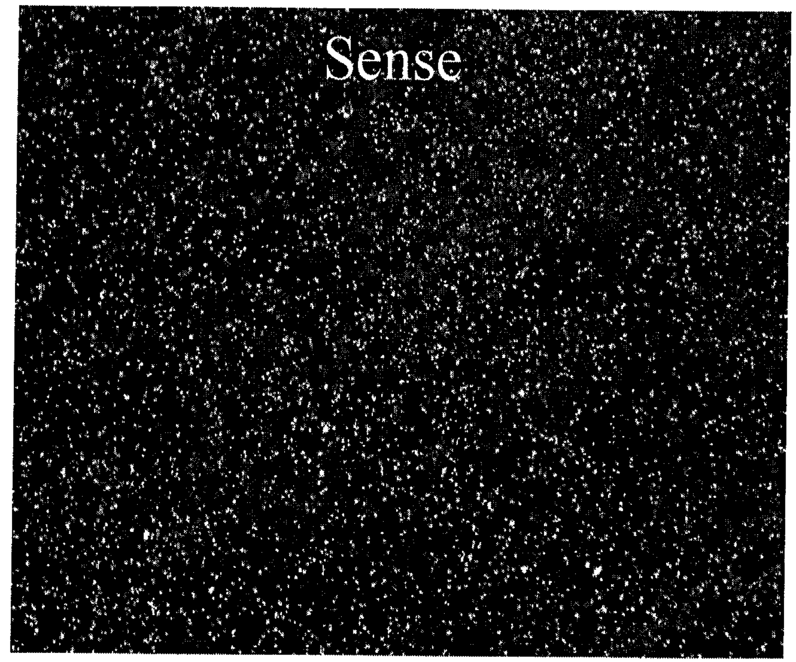


FIG. 14A

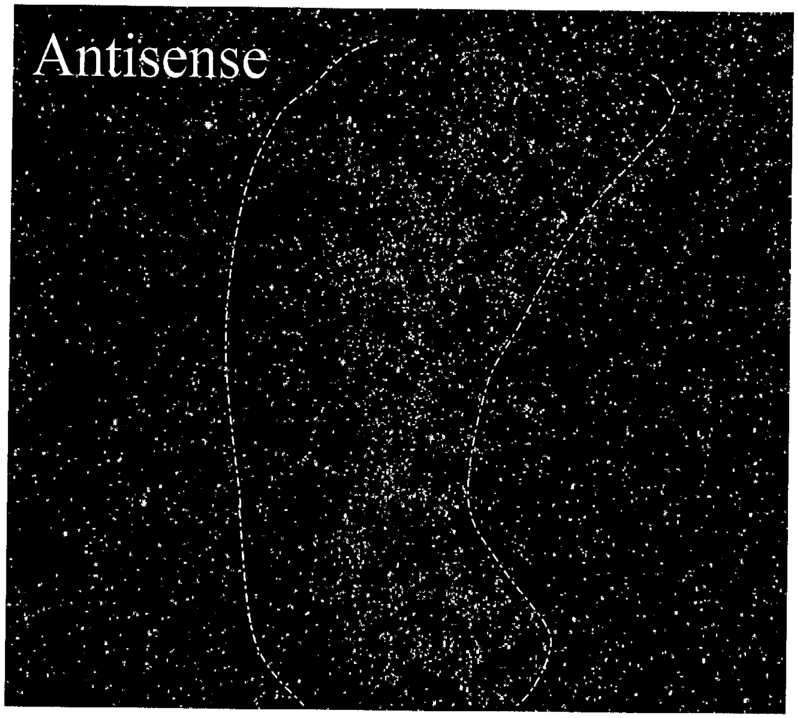


FIG. 14B

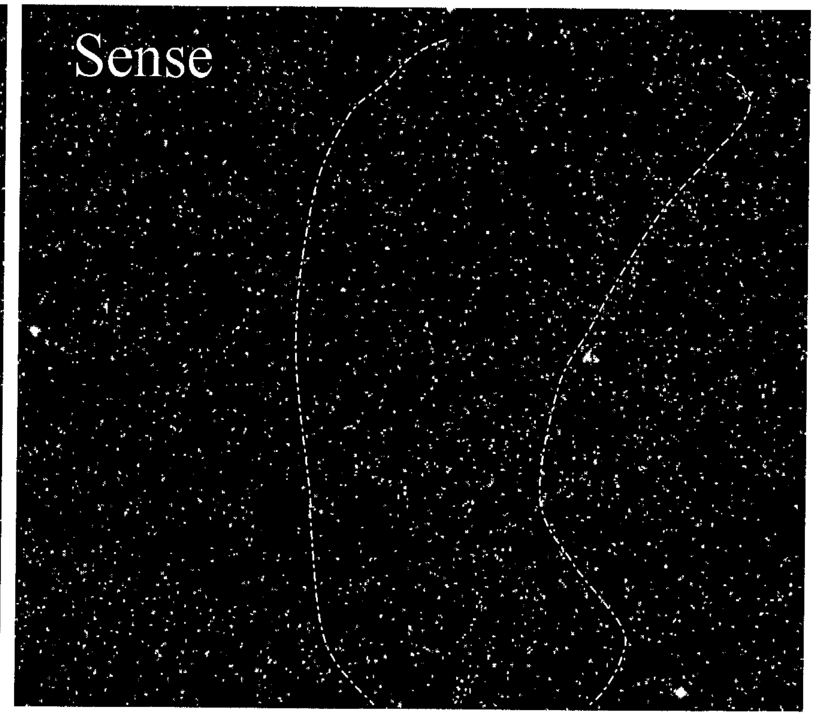


FIG. 15A

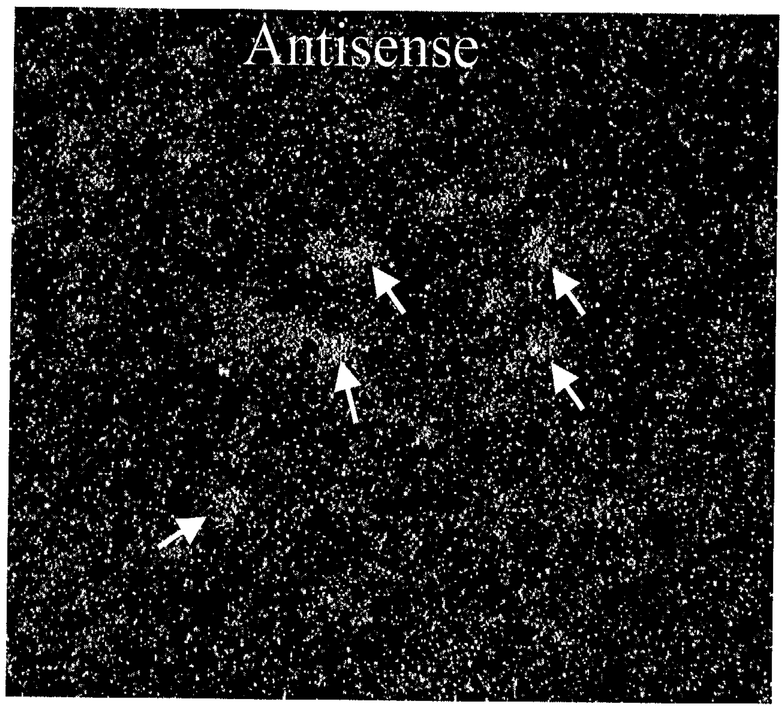


FIG. 15B

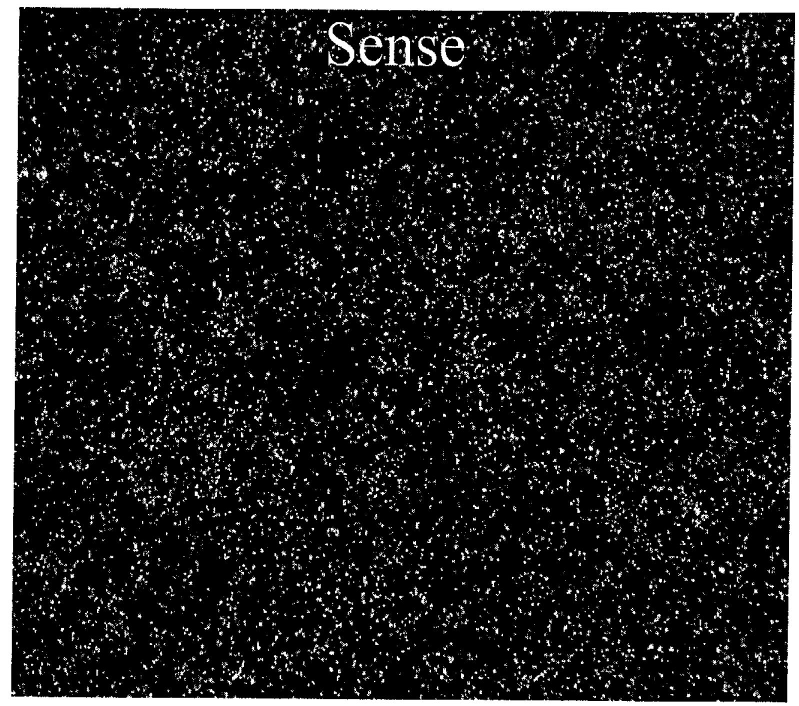


FIG. 16A

FIG. 16B

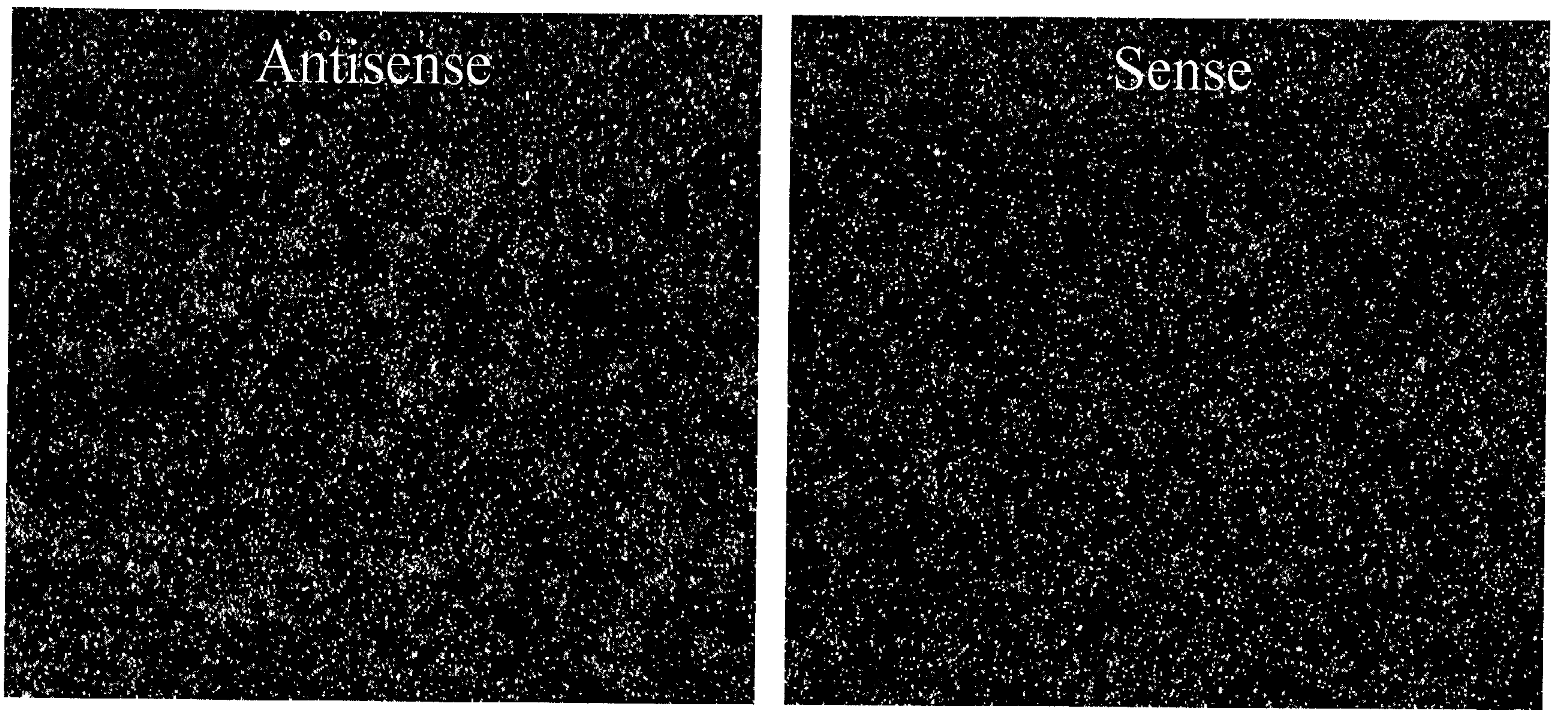


FIG. 17A

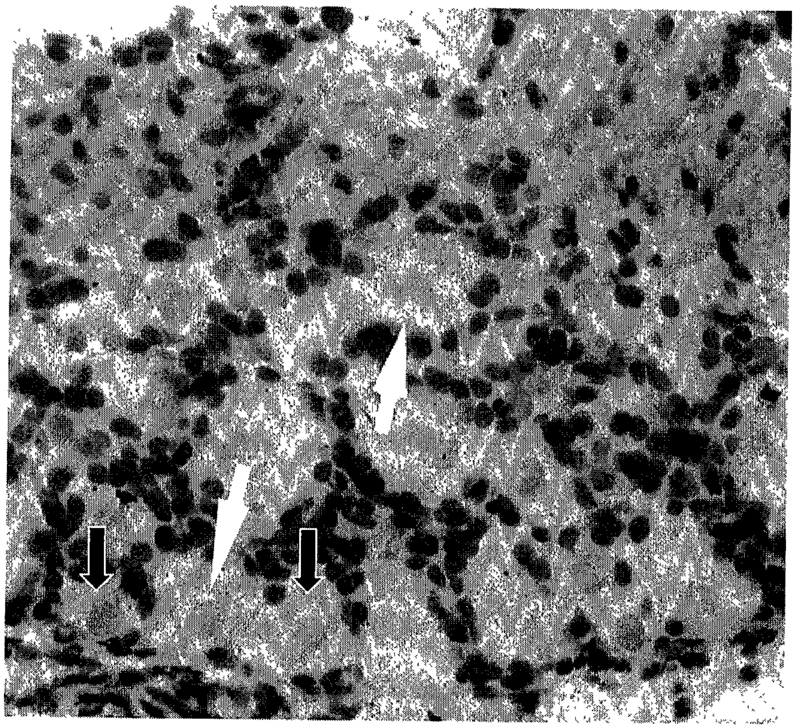


FIG. 17B

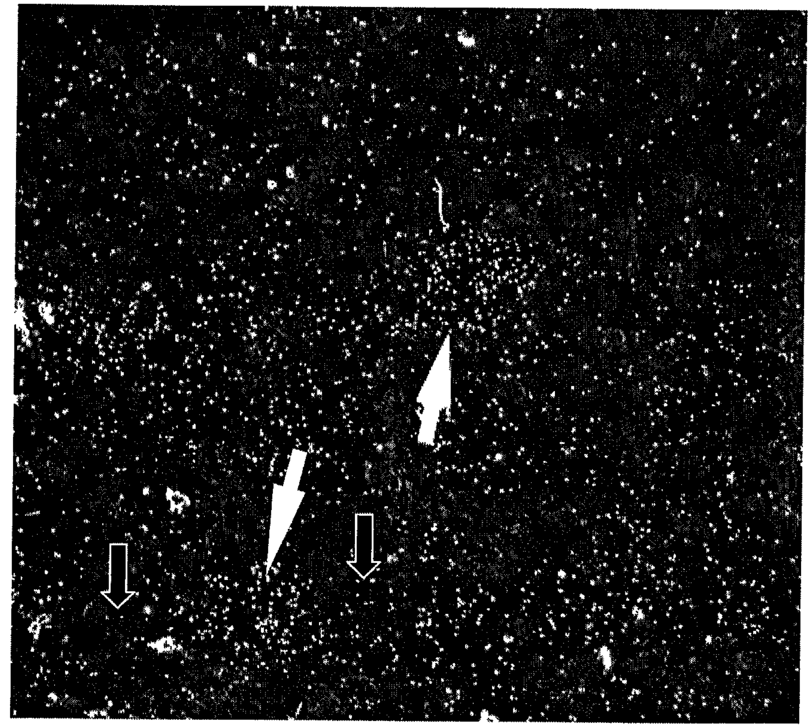


FIG. 18A

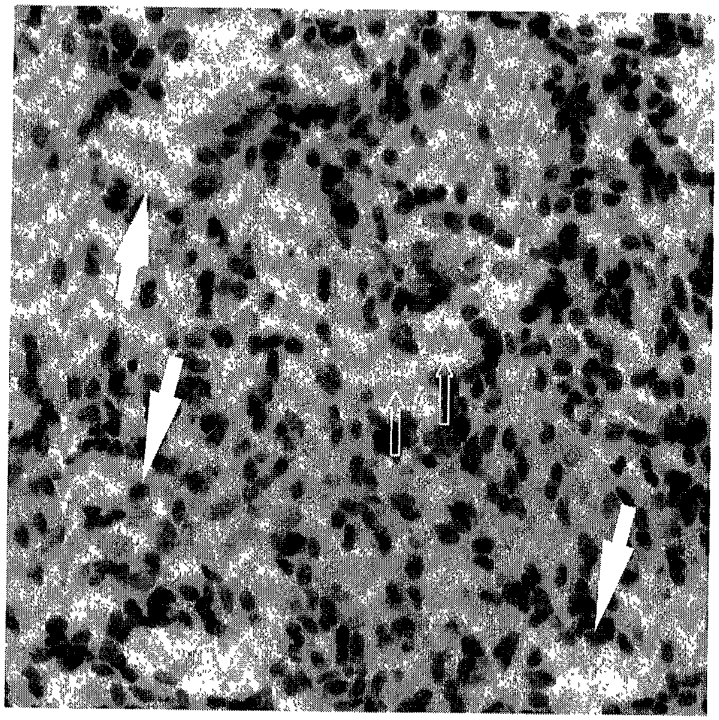


FIG. 18B